

## CURRICULUM VITAE

**John J. Cush, M.D.**

**Home Address**

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**Work Address**

Presbyterian Hospital of Dallas  
Arthritis Consultation Center  
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**Undergraduate Education**

St. John's University, Jamaica, NY  
B.S. (Biology), 1977

**Medical Education**

St. George's University School of Medicine  
Grenada, West Indies  
M.D., July 1981

**Training**

*Internship*

Coney Island Hospital  
Brooklyn, NY 11235  
Straight Medical Internship (6/23/81 - 6/22/82)

*Residency*

Coney Island Hospital  
Brooklyn, NY 11235  
Internal Medicine (7/1/82 - 6/30/83)  
Chief Medical Resident (7/1/83 - 6/30/84)

*Fellowship*

University of Texas Health Science Center at Dallas  
Parkland Memorial Hospital, Dallas, TX  
Rheumatology (7/1/84 - 7/30/87)

**Qualifying Exams**

ECFMG, July 1980; FLEX (I-III), June 1981

**Licensure**

Georgia [REDACTED] 1982

New York (# [REDACTED] 1984

Texas [REDACTED] - 1989

**Board Certification**

American Board of Internal Medicine

Diplomate in Internal Medicine, Sept. 1984

American Board of Internal Medicine

Diplomate in Rheumatology, Nov. 1988

<b>Appointments</b>	<p>Assistant Instructor in Internal Medicine, UTSWMC            Rheumatic Diseases Division (9/1/87-12/15/88)</p> <p>Instructor in Internal Medicine, UTSWMC            Rheumatic Diseases Division (12/15/88 - 8/31/89)</p> <p>Assistant Professor of Internal Medicine, UTSWMC            Rheumatic Diseases Division (9/1/89 - 8/31/95)</p> <p>Associate Professor of Internal Medicine, UTSWMC            Rheumatic Diseases Division (9/1/95 - 9/30/96)</p> <p>Clinical Associate Professor of Internal Medicine            Univ of Texas Southwestern Medical School (10/1/96 - 7/31/00)</p> <p>Clinical Professor of Internal Medicine            Univ of Texas Southwestern Medical School (8/1/00 - Present)</p> <p>Chief, Division of Rheumatology and Clinical Immunology            Medical Director, Arthritis Consultation Center            Presbyterian Hospital of Dallas (10/1/96 - present)</p>
<b>Awards</b>	<p>Intern of the Year - Coney Island Hospital 1982</p> <p>Health Professional of the Year, N. Texas Arthritis Foundation 1996</p> <p>Voted to "Best Doctors In America - Central Region" 1996</p> <p>Voted to "Best Doctors In America" 1998</p> <p>oTeacher of the Year□ PHD Residency Training Program 1998-99</p>
<b>Professional Organizations</b>	<p>American College of Physicians</p> <p>American College of Rheumatology</p> <p>Dallas County Medical Society, Texas Medical Association</p>
<b>Positions Held</b>	<p>Arthritis Foundation - North Texas Chapter            Board of Directors, 1993 - present            Chairman, Professional Education Committee 1991-95            Medical and Scientific Committee 1990 - present            Chairman, Medical and Scientific Committee 1995-97            Chairman, Educational and Services, 1998-2000</p> <p>National Arthritis Foundation-Professional Education Comm 1995-2000            Vice Chair, Professional Education 1996 - 1999            Chairman, Professional Education 1999- 2000            Medical &amp; Scientific Committee 1999-2000            American College of Rheumatology, Committee on Communications and Marketing. 1998 - present            Univ Texas Southwestern Medical Center, Executive Committee            General Clinical Research Committee, 1993 - 1997</p> <p>St. Georges University School of Medicine            Chairman, Academic Board 1990 - present            Trustee, Board of Trustee's 1993 - present</p> <p>Editorial Board, "Joint Letter", Raven Press 1994 - present            Editor, Amer. College of Rheumatology Hotlines 1999 - present</p>

## **Publications**

1. Cush JJ, Leibowitz IH, Friedman SA. Adult-onset Still's disease and inflammatory orbital pseudotumor. *NY St J Med*; 85:110-11, 1985
2. Cush JJ, Goldings EA. Drug-induced lupus. *Am J Med Sci*; 290:36-45, 1985
3. Cush JJ, Lipsky PE. Approach to disorders of the joints. In, *Harrison's Principles of Internal Medicine*, 11th ed. New York. McGraw-Hill, 1987, pp.1454-56
4. Cush JJ, Medsger TA, Christy WA, Herbert SD, Cooperstein LA. Adult-onset Still's disease: Clinical course and outcome. *Arthritis Rheum*; 30:186-94, 1987
5. Cush JJ, Lipsky PE. The immunopathogenesis of rheumatoid arthritis: the role of cytokines in chronic inflammation. *Clin Aspects Autoimmunity* 1(4):2-13, 1987
6. Cush JJ, Lipsky PE. Phenotypic analysis of synovial tissue and peripheral blood lymphocytes isolated from patients with rheumatoid arthritis. *Arthritis Rheum* 31(10):1230-38, 1988
7. Lipsky PE, Davis LS, Cush JJ, Oppenheimer-Marks N. The role of cytokines in the pathogenesis of rheumatoid arthritis. *Springer Semin Immunopathol* 11:123-162, 1989
8. Cush JJ, Lipsky PE, Postlethwaite AE, Schrohenloher RE, Saway A, Koopman WJ. Correlation of serologic indicators of inflammation with effectiveness of NSAID therapy in rheumatoid arthritis. *Arthritis Rheum* 33:19-28, 1990
9. Cush JJ, Jasin HE, Johnson R, Lipsky PE. Relationship between clinical efficacy and laboratory correlates of inflammatory and immunologic activity in rheumatoid arthritis patients treated with nonsteroidal antiinflammatory drugs. *Arthritis Rheum* 33:623-633, 1990
10. Cush JJ, Lipsky PE. Approach to articular and musculoskeletal disorders. In, *Harrison's Principles of Internal Medicine*, 12th ed. New York. McGraw-Hill, 1990, pp.1472-75
11. Cush JJ, Lipsky PE. Cellular basis for rheumatoid inflammation. *Clin Orthop Rel Res* 265:9-22, 1991
12. Cush JJ, Lipsky PE, Postlethwaite AE, Schrohenloher RE, Koopman WJ. Reply. [Letter] *J Immunol* 148:120-121, 1991
13. Cush JJ, Lipsky PE. Reiter's Syndrome and Reactive Arthritis. In, *Arthritis and Allied Conditions - A Textbook of Rheumatology*. D.J. McCarty and W.J. Koopman (eds)., 12th edition, Philadelphia, Lea & Febiger, 1992. pp. 1061-1078
14. Pietschmann P, Cush JJ, Lipsky PE, Oppenheimer-Marks. Identification of subsets of human T cells capable of enhanced transendothelial migration. *J Immunol* 148:1170-1178, 1992
15. Cush JJ, Pietschmann P, Oppenheimer-Marks N, Lipsky PE. The intrinsic migratory capacity of memory T cells may explain their accumulation in the the rheumatoid synovium. *Arthritis Rheum* 35:1434-1444, 1992

16. Oppenheimer-Marks N, Pietschmann P, Davis LS, Cush JJ, Kavanaugh AF, Lipsky PE. The adhesion and transendothelial migration of human T lymphocytes. In, *Structure and Function of Molecules Involved in Leukocyte Adhesion*. Eds, P.E. Lipsky, R. Rothlein, T.K. Kishimoto, R.B. Faanes, and C.W. Smith. Springer-Verlag, New York, pp. 232-241, 1993
17. Cush JJ, Lipsky PE. Medications for spondylitis and related conditions. In, *Straight Talk on Spondylitis*. R.L. Swezey (ed), 2nd edition, Sherman Oaks, Spondylitis Association of America, 1992, pp. 8-11
18. Dooley MA, Cush JJ, Lipsky PE, Dawson DV, Pisetsky DS. The effects of nonsteroidal anti-inflammatory drug therapy in early rheumatoid arthritis on serum levels of soluble interleukin 2 receptor, CD4, and CD8. *J Rheumatol* 20:1857-1862, 1993
19. Strand V, Lipsky PE, Cannon GW, et al. Effects of administration of an anti-CD5 plus immunoconjugate in rheumatoid arthritis. The CD5 Plus Rheumatoid Arthritis Investigators Group. *Arthritis Rheum* 36:620-30, 1993
20. Cush JJ, Rothlein R, Lindsley HB, Mainolfi E, Lipsky PE. Increased soluble intercellular adhesion molecule-1 levels in the serum of patients with rheumatoid arthritis. *Arthritis Rheum* 36:1098-1102, 1993
21. Middleton G, Karp D, Lee E, Cush J. Wegener's granulomatosis presenting as lower back pain with prostatitis and ureteral obstruction. *J Rheumatol* 21:566-569, 1994
22. Cush JJ, Lipsky PE. Approach to articular and musculoskeletal disorders. In, *Harrison's Principles of Internal Medicine*, J.D. Wilson, et al (Eds.), 13th ed. New York. McGraw-Hill, 1994, pp. 1688-1692
23. Shrestha M, Chiu MJ, Martin RL, Bidadi K, Cush JJ, Wainscott MS. Treatment of acute gouty arthritis with ketorolac tromethamine. *Amer J Emergency Med* 12:454-455, 1994
24. Sampalis JS, Esdaile JM, Medsger Jr. TA, Partridge AJ, Yeadon C, Senecal JL, Myhal D, Marth M, Gutkowski A, Carette S, Beaudet F, Cush JJ, Fries JF. A controlled study of the long-term prognosis of adult Still's disease. *Am J Med* 98: 384-388, 1995
25. Cush JJ, Splawski JB, Thomas R, McFarlin JE, Schulze-Koops H, Davis LS, Fujita K, Lipsky PE. Elevated interleukin 10 levels in patients with rheumatoid arthritis. *Arthritis Rheum* 38:96-104, 1995

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29. Cush JJ, Lipsky PE. The Spondyloarthropathies. In, *Cecil Textbook of Internal Medicine*. J.C. Bennett, et al (Eds), 20th ed., W.B. Saunders, 1996, pp 1466-1472

30. Cush JJ, Lipsky PE. Reiter's Syndrome and Reactive Arthritis. In, *Arthritis and Allied Conditions - A Textbook of Rheumatology*. W.J. Koopman (ed), 13th edition, Philadelphia, Williams & Wilkins, 1996 pp. 1209-1227
31. Kavanaugh A, Heudebert G, Cush J, Jain R. Cost evaluation of novel therapeutics in rheumatoid arthritis (CENTRA): A decision analysis. *Sem Arthritis Rheum* 25:297-307, 1996
32. Olsen NJ, Brooks RH, Cush JJ, Lipsky PE, St. Clair EW, Matteson EL, Gold KN, Cannon GW, Jackson CG, McCune WJ, Fox DA, the Xoma Investigator Group, Nelson B, Lorenz T, Strand V. A double-blind, placebo-controlled study of anti-CD5 immunoconjugate in patients with rheumatoid arthritis. *Arthritis Rheum* 39:1102-1108, 1996
33. Cush JJ. Anti-CD5/Ricin A chain immunoconjugate therapy in rheumatoid arthritis. In, *Novel Therapeutic Agents for the Treatment of Autoimmune Diseases*. V. Strand, D.L. Scott, L.S. Simon (Eds), Marcel Dekker Inc, New York, 1996 pp. 11-24
34. Clegg DO, Reda DJ, Weisman MH, Blackburn WD, Cush JJ, Cannon GW, Mahowald ML, Schumacher HR Jr., Taylor T, Budiman-Mak E, Cohen MR, Vasey FB, Luggen ME, Mejias E, Silverman SL, Makkina R, Alepa FP, Buxbaum J, Haakenson CM, Ward RH, Manaster BJ, Anderson RJ, Ward JR, Henderson WG. Comparison of sulfasalazine and placebo in the treatment of ankylosing spondylitis: a Department of Veterans Affairs Cooperative Study. *Arthritis Rheum* 39:2004-2012, 1996
35. Clegg DO, Reda DJ, Mejias E, Cannon GW, Weisman MH, Taylor T, Budiman-Mak E, Blackburn WD, Vasey FB, Mahowald ML, Cush JJ, Schumacher HR Jr., Silverman SL, Alepa FP, Luggen ME, Rama Cohen MR, Makkina R, Haakenson CM, Ward RH, Manaster BJ, Anderson RJ, Ward JR, Henderson WG. Comparison of sulfasalazine and placebo in the treatment of psoriatic arthritis: a Department of Veterans Affairs Cooperative Study. *Arthritis Rheum* 39:2013-2020, 1996
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37. Ellrodt AG, Cho M, Cush JJ, Kavanaugh AF, Lipsky PE. An evidence-based medicine approach to the diagnosis and management of musculoskeletal complaints. *Am J Med* 103(6A):3S-6S, 1997
38. Lipsky PE, Alarcon GS, Bombardier C, Cush JJ, Ellrodt AG, Gibofsky A, Heudebert G, Kavanaugh AF, et al. Algorithms for the diagnosis and management of musculoskeletal complaints. *Am J Med* 103(6A):49S-85S, 1997
39. Kavanaugh AF, Cush JJ. Who needs knees. [Case & Comment] *Patient Care* 31(5): 181-182, 1997
40. Cush JJ, Lipsky PE. Approach to articular and musculoskeletal disorders. In, *Harrison's Principles of Internal Medicine*, A.S. Fauci, E Braunwald, K.J. Isselbacher, et al (Eds.), 14th ed.

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43. Cush JJ. Rheumatoid Arthritis. In, *Clinical Symposia*. Novartis, East Hanover, 51 (1):2-41, 1999
44. Cush JJ, Tugwell P, Weinblatt M, Yocum D. US consensus guidelines for the use of cyclosporine A in rheumatoid arthritis. *J Rheumatol* 26(5):1176-1186, 1999
45. Cush JJ. Rationale and risks of novel immunomodulatory therapies in rheumatoid arthritis. *Drugs Today* 35: 287-294, 1999
46. Cush JJ, Spiera R. FDA approval of Prosoba immunoadsorption column. Hotline. American College of Rheumatology. 5/27/99 <http://www.rheumatology.org/research/hotline/prosorba.html>
47. Cush JJ, Spiera R. Zinaxin (ginger root). Hotline. American College of Rheumatology. 5/28/99. <http://www.rheumatology.org/research/hotline/zinaxin.html>
48. Cush JJ, Lipsky PE. The Spondyloarthropathies. In, *Cecil Textbook of Internal Medicine*. J.C. Bennett, et al (Eds), 21st ed., W.B. Saunders, 1999
49. Spiera R, Cush JJ. Rofecoxib (Vioxx). Hotline. American College of Rheumatology. 7/13/99. <http://www.rheumatology.org/research/hotline/rofecoxib.html>
50. Cush JJ, Spiera R. Etanercept label updated following post-marketing infectious events. Hotline. American College of Rheumatology. 7/28/99 <http://www.rheumatology.org/research/hotline/adverse.html>
51. Cush JJ, Spiera R. Infliximab approved for use in rheumatoid arthritis. Hotline. American College of Rheumatology. 2/29/00 <http://www.rheumatology.org/research/hotline/infliximab.html>
52. Cush JJ, Spiera R. A surgical cure for fibromyalgia and chronic fatigue? Reaction to an ABC News 20/20 report. Hotline. American College of Rheumatology. 4/13/00 <http://www.rheumatology.org/research/hotline/fmsurgery.htm>
53. Moskowitz RW, Cush JJ, Spiera R. New data on glucosamine and chondroitin sulfate. Hotline. American College of Rheumatology. 7/28/00 <http://www.rheumatology.org/research/hotline/0700glucosamine.html>
54. Furst DE, Cush JJ, Moreland LW, Sewell KL, Liss M, Parker M, Woodworth TG. No flare in rheumatoid arthritis disease activity occurs during four or eight weeks of washout from

methotrexate in patients with resistant rheumatoid arthritis. Ann Rheum Dis (In press, 2000)

55. Cush JJ, Spiera R. Quality of healthcare for rheumatoid arthritis patients: another vote cast in favor of rheumatologists. Hotline. American College of Rheumatology. 10/18/00  
<http://www.rheumatology.org/research/hotline/1000qualityofhealth.html>
56. Cush JJ. Adult onset Still's disease. Bull Rheum Dis 49(6):1-4, 2000
57. Spiera R, Cush JJ. Rituximab in the treatment of rheumatoid arthritis. Hotline. American College of Rheumatology. 11/20/00.  
<http://www.rheumatology.org/research/hotline/1100rituximab.html>
58. Cush JJ, Spiera R. Etanercept update in recent "Dear Doctor" letter. Hotline. American College of Rheumatology. 11/00.  
<http://www.rheumatology.org/research/hotline/1200etanercept.html>
59. Cush JJ. Etanercept Patient Enrollment. Hotline. American College of Rheumatology. 12/00.  
<http://www.rheumatology.org/research/hotline/1200enrollment.html>
60. Davis LS, Cush JJ, Schulze-Koops H, Lipsky PE. Rheumatoid synovial CD4+ T cells exhibit a reduced capacity to differentiate into IL-4 producing T-helper-2 effector cells. Arthritis Res 3:54-64, 2001
61. Cush JJ, Matteson E. Methotrexate for Giant Cell arteritis. Hotline. American College of Rheumatology. 3/22/01  
<http://www.rheumatology.org/research/hotline/032301methotrexate.html>
62. Cush JJ, Matteson E. Reports of leflunomide hepatotoxicity in patients with rheumatoid arthritis. Hotline. American College of Rheumatology. August 2001  
<http://www.rheumatology.org/research/hotline/0801leflunomide.html>
63. Matteson E, Cush JJ. Selective Cox-2 inhibitors as risk factors for cardiovascular events. Hotline. American College of Rheumatology. August 2001  
<http://rheumatology.org/research/hotline/0801acox2.html>
64. Wolfe F, Cush JJ, O'Dell JR, Kavanaugh AF, Kremer JM, Lane NE, Moreland LW, Paulus H, Pincus T, Russell AS, Wilske KR. Consensus recommendations for the assessment and treatment of rheumatoid arthritis. J Rheumatol (Suppl):1423-1430, 2001
65. Cush JJ, Matteson E. FDA advisory committee reviews safety of TNF inhibitors. September 2001.  
<http://www.rheumatology.org/research/hotline/0901tnf.html>

#### Books

Cush JJ, Kavanaugh AF, Olsen NO, Stein M, Kazi S, Saag K. *Rheumatology: Diagnosis and Therapeutics*. J. J. Cush, A. F. Kavanaugh (Eds.), Williams & Wilkins, Baltimore, 1998

#### Abstracts

1. Cush JJ, Medsger TA, Christy WA, Herbert SD, Cooperstein LA. Adult-onset Still's disease: Clinical course and outcome. *Arthritis Rheum*; 28(Suppl):S30, 1985
2. Cush JJ, Fink CW. Clinical outcome of pauciarticular onset juvenile arthritis (JA). *Arthritis Rheum*; 30(Suppl):S34, 1987
3. Cush JJ, Lipsky PE. Abnormal class II MHC antigen expression by monocytes in active Reiter's syndrome. *Arthritis Rheum* 30(Suppl):S43, 1987
4. Cush JJ, Lipsky PE. Phenotypic analysis and activation status of circulating T lymphocytes in rheumatoid arthritis (RA) patients: effects of disease activity and drug therapy. *Arthritis Rheum*; 30(Suppl):S116, 1987
5. Cush JJ, Jasin HE, Lipsky PE. The effect of treatment with nonsteroidal anti-inflammatory drugs (NSAIDs) on *in vitro* spontaneous rheumatoid factor (RF) synthesis in patients with rheumatoid arthritis (RA). *Arthritis Rheum*; 31(Suppl):S53, 1988
6. Cush JJ, Lipsky, PE. Phenotypic analysis of synovial tissue lymphocytes from patients with rheumatoid arthritis. *Faseb J*; 2:A907, 1988
7. Cush JJ, Lipsky PE, Postlethwaite A, Schrohenloher RE, Saway A, Koopman WJ. Correlation of serologic and immunologic parameters with effectiveness of NSAID therapy in rheumatoid arthritis (RA). *Arthritis Rheum*; 32(Suppl):S16, 1989
8. Cush JJ, Lightfoot E, Duby AD, Lipsky PE. Cerebrospinal fluid (CSF) T cell clones from patients with active lupus cerebritis. *Arthritis Rheum* 32(Suppl):S120, 1989
9. Cush JJ, Lipsky PE. Dual immunofluorescence analysis of lymphocyte subsets eluted from rheumatoid synovium. *Faseb J*; 4:A1855, 1990
10. Cush JJ, Lightfoot E, Lipsky PE. Two color cytofluorometric analysis of synovial tissue lymphocyte subsets. *Arthritis Rheum* 33 (Suppl):S58, 1990
11. Cush JJ, Duby AD, Lightfoot E, Lipsky PE. The search for oligoclonal T cells in rheumatoid synovium. *Arthritis Rheum* 33 (Suppl):S16, 1990
12. Cush JJ, Nichols LA, Lipsky PE. Clinical and immunologic studies of rheumatoid arthritis patients treated with an anti-CD5 immunoconjugate. *J Cell Biochem* 46 (Suppl 15E):178, 1991
13. Lipsky PE, Duby AD, Lightfoot E, Cush JJ. Surface phenotype and T cell receptor analysis of rheumatoid synovial tissue lymphocytes. *J Cell Biochem* 46 (Suppl 15E):165, 1991
14. Cush JJ, Oppenheimer-Marks N, Lipsky PE. Phenotype of T cells capable of transendothelial cell migration. *Faseb J*; 5: A962, 1991
15. Cush JJ, Erdman WA, Jayson HT, Lipsky PE. Magnetic resonance imaging in the evaluation of early changes in early rheumatoid arthritis (RA). *Arthritis Rheum* 34 (Suppl):S64, 1991
16. Cush JJ, Lipsky PE, Oppenheimer-Marks N. Phenotype of T cells with intrinsically different

- abilities to bind and migrate through endothelium. *Arthritis Rheum* 34 (Suppl):S168, 1991
17. Pietschmann P, Cush JJ, Lipsky PE, Oppenheimer-Marks N. Identification of a T cell subset capable of transendothelial migration. *Arthritis Rheum* 34 (Suppl):S168, 1991
  18. Dooley MA, Cush JJ, Lipsky PE, Pisetsky DS. Soluble serum IL-2 receptor, CD4, and CD8 levels in early RA: lack of correlation with disease activity. *Arthritis Rheum* 34 (Suppl):S90, 1991
  19. Cush JJ, Nichols LA, Strand V, Lipsky PE. Treatment of rheumatoid arthritis patients with an anti-CD5 immunoconjugate. *Arthritis Rheum* 34 (Suppl):S159, 1991
  20. Pietschmann P, Cush JJ, Lipsky PE, Oppenheimer-Marks N. Memory CD4(+) T cells manifest an enhanced transendothelial migratory capacity. *Faseb J* 6 (Suppl):A1124, 1992
  21. Cush JJ, Rothlein R, Lindsley HB, Lipsky PE. Increased soluble intercellular adhesion molecule-1 (sICAM-1) levels in the serum of patients with rheumatoid arthritis (RA). *Arthritis Rheum* 35 (Suppl):S233, 1992
  22. Sewell KL, Moreland LW, Cush JJ, Furst DE, Woodworth TG, Meehan RT. Phase I/II, double-blind, dose-response trial of a second fusion toxin, DAB(389)IL-2, in rheumatoid arthritis. *Arthritis Rheum* 36 (Suppl):S130, 1993
  23. Cush JJ, Olsen NA, Brooks RA, Nichols LA, Kavanaugh AF, Lipsky PE. Cyclic anti-CD5 immunoconjugate therapy in early rheumatoid arthritis (RA). *Arthritis Rheum* 36 (Suppl):S130, 1993
  24. Kavanaugh A, Cush J, Eshaghi N, Awad R. Rotator cuff dysfunction in rheumatoid arthritis (RA): analysis utilizing magnetic resonance imaging (MRI). *Arthritis Rheum* 36 (Suppl):S263, 1993
  25. Cush JJ, Splawski JB, Thomas R, McFarlin JE, Lipsky PE. Elevated interleukin 10 (IL-10) levels in rheumatoid arthritis (RA). *Arthritis Rheum* 36 (Suppl):S56, 1993
  26. Cush JJ, Thomas R, Splawski JB, Lipsky PE. Increased interleukin-10 (IL-10) levels in patient with rheumatoid arthritis (RA). *Clin Research* 42:312A, 1994
  27. Cush JJ, Das SK, Lipsky PE. Utility of cerebrospinal fluid (CSF) tests for in situ IgG synthesis in lupus cerebritis. *Arthritis Rheum* 37 (Suppl):S178, 1994
  28. Kavanaugh A, Heudebert G, Jain R, Cush J. What price biologics? A decision analysis of the cost effectiveness of new immunomodulatory therapies in rheumatoid arthritis (RA). *Arthritis Rheum* 37 (Suppl):S195, 1994
  29. Olsen NJ, Cush JJ, Lipsky PE, St. Clair EW, Matteson E, Cannon G, McCune WJ, Strand V, Lorenz T. Multicenter Trial of an anti-CD5 immunoconjugate in rheumatoid arthritis (RA). *Arthritis Rheum* 37 (Suppl):S295, 1994
  30. Clegg DO, Reda DJ, Weisman MH, Cush JJ, Vasey FP, Schumacher HR, Budiman-Mak E, Taylor TT, Cannon GW, Blackburn WD, Inman RD, Alepa FP, Mejias E, Cohen MR, Makkena R, Mahowald M, Higashida J, Silverman SL. Comparison of sulfasalazine and placebo for the treatment of Reiter's syndrome. *Arthritis Rheum* 37 (Suppl):S206, 1994

31. Cush JJ, Kavanaugh AF, Lipsky PE, and the Arthritis Care Algorithm Steering Committee. The generation of algorithms for the diagnosis and management of musculoskeletal (MS) complaints: Results of a national multidisciplinary effort. *Arthritis Rheum* 39 (Suppl): S164, 1996
32. Cush JJ, Kavanaugh AF, Lipsky PE, Arthritis Care Algorithm Steering Committee. 1995 National survey of U.S. rheumatologists: beliefs regarding therapy, referrals, managed care and guidelines. *Arthritis Rheum* 39 (Suppl): S164, 1996
33. Bettachi CJ, Kamen BA, Cush JJ. Post-methotrexate (MTX) CNS toxicity: symptom reduction with dextromethorphan. *Arthritis Rheum* 42(Suppl):S236, 1999
34. Kremer JM, Caldwell JR, Cannon GW, Genovese M, Cush JJ, Bathon J, Coleman JC. The combination of leflunomide (LEF) and methotrexate (MTX) in patients with active rheumatoid arthritis (RA) who are failing on MTX treatment alone: a double-blind, placebo-controlled study. *Arthritis Rheum* 43(Suppl):S224, 2000
35. Hansen KE, Cush J, Singhal A, Cooley DA, Cohen S, Patel SR, Genovese M, Sundaramurthy S, Schiff M. The safety and efficacy of leflunomide (LEF) in combination with infliximab (INF) in rheumatoid arthritis (RA). *Arthritis Rheum* 44(Suppl):2001

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ON ORIGINAL